

It's important to read this instruction prior to using your new product for the first time.

FCC Information

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

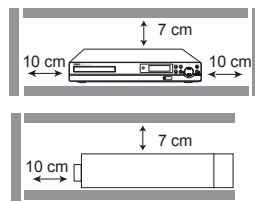
WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



This Home Theater has earned the ENERGY STAR.

Ventilation

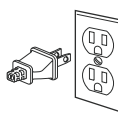
You must adequately ventilate the product. Make sure there is adequate space around the unit to provide proper air flow for ventilation. See diagram.



This product complies with DHHS Rules 21 CFR Subchapter J. Applicable at the date of manufacture.

For your safety

The AC power plug is polarized (one blade is wider than the other) and only fits into AC power outlets one way. If the plug won't go into the outlet completely, turn the plug over and try to insert it the other way.



If it still won't fit, contact a qualified electrician to change the outlet, or use a different one. Do not attempt to bypass this safety feature.

Removing the power plug is the only way to completely remove power from your product. Make sure the power plug remains easily accessible.

Note

This DVD player is designed and manufactured to correspond to the Region Management Information. If the Region number of a DVD disc does not correspond to the Region number of this DVD player, this player cannot play the disc. The Region number for this DVD player is Region 1.

FCC Information



WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE.

WARNING: MAINS PLUG IS USED AS DISCONNECT DEVICE AND IT SHOULD REMAIN READILY OPERABLE DURING INTENDED USE. IN ORDER TO DISCONNECT THE APPARATUS FROM MAINS COMPLETELY, THE MAINS PLUG SHOULD BE DISCONNECTED FROM THE MAINS SOCKET OUTLET COMPLETELY.

Caution

This product utilizes a laser. Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure. Do not open covers and do not repair yourself. Refer servicing to qualified personnel. Visible and invisible laser radiation when open and interlocks defeated. DO NOT STARE INTO BEAM.

Class 1 laser product



CLASS 1 LASER PRODUCT
APPAREIL A LASER DE CLASSE 1
PRODUCTO LASER DE CLASE 1

Illustrations contained in this document are for representation only.

Please respect the environment and prevailing regulations. Before you dispose of batteries or accumulators, ask your dealer whether they are subject to special recycling and if they will accept them for disposal.



This class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme du NMB-003 du Canada.

WARNING

To reduce the risk of fire or electric shock hazard, do not expose this product to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, should be placed on the apparatus.

Important Information

Service information

This product should be serviced only by those specially trained in appropriate servicing techniques.

Important battery information

- Do not mix different types of batteries or new and old batteries. Do not use rechargeable batteries.
- In order to avoid any risk of explosion, observe the polarities indicated inside the battery compartment. Replace only with the type of batteries specified. Do not dispose of them in a fire or recharge them.
- If you are not using the remote control for a long period of time, remove the batteries.

DVD copy protection

In accordance with the DVD standard, your DVD player is equipped with a Copy Protection system, which can be switched on and off by the DVD disc itself, in order to make any recording of the relevant DVD disc onto a videotape of very poor picture quality, or even impossible. This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home use only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Important Safety Instructions

Please read and save for future reference.

Some of the following information may not apply to your particular product; however, as with any electronic product, precautions should be observed during handling and use.

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your wall outlet, consult an electrician for replacement of the obsolete outlet.

- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments / accessories specified by the manufacturer.
- Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Important Safety Instructions

Additional safety information

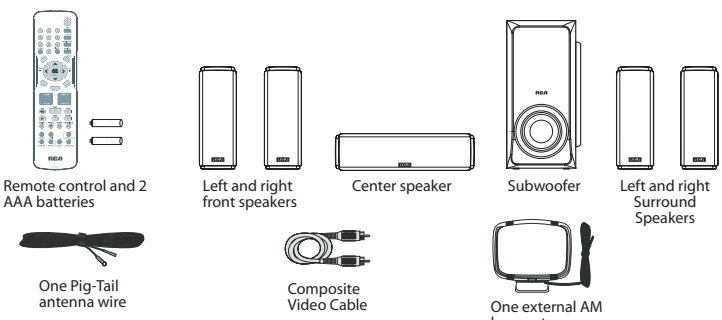
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- Always leave sufficient space around the product for ventilation. Do not place product in or on a bed, rug, in a bookcase or cabinet that may prevent air flow through vent openings.
- Do not place lighted candles, cigarettes, cigars, etc. on the product.
- Connect power cord only to AC power source as marked on the product.
- Care should be taken so that objects do not fall into the product.
- Do not attempt to disassemble the cabinet. This product does not contain customer serviceable components.

If your product operates on batteries, adhere to the following precautions:

- Any battery may leak electrolyte if mixed with a different battery type, if inserted incorrectly, or if all batteries are not replaced at the same time.
- Any battery may leak electrolyte or explode if disposed of in fire or an attempt is made to charge a battery not intended to be recharged.
- Discard leaky batteries immediately. Leaking batteries can cause skin burns or other personal injury. When discarding batteries, be sure to dispose of them in the proper manner, according to your state/provincial and local regulations.
- Battery shall not be exposed to excessive heat such as sunshine, fire or the like.

Connections and Setup

Accessories provided



Things to consider before you connect

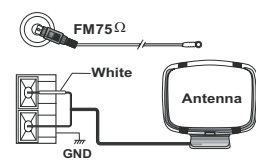
- Ensure that the mains supply in your house complies with that indicated on the identification sticker located on the back of your unit.
- Install your unit horizontally, away from any source of heat (fireplace) or appliances creating strong magnetic or electric fields. The components of this unit are sensitive to heat. The maximum ambient temperature should not exceed 35°C / 95°F.
- Leave enough space around the unit to allow adequate ventilation: 10 cm/4 inches on either side and above the top, and 5 cm/2 inches at the rear.

- The humidity of the room should not exceed 75%. If you have to use the unit outdoors, do not expose it to rain or splashing water. The apparatus should not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the apparatus.
- Moving the unit from a cold place to a warm one can cause condensation on some components inside the unit. Let the condensation disappear on its own before turning the unit on again.
- Before moving the unit, make sure the disc tray is empty.

Connections and Setup

- Where the mains plug or an appliance coupler is used as a disconnect device, the disconnect device shall remain readily operable.
- Other important use and cleaning information at the end of the booklet.

Connecting the antennas



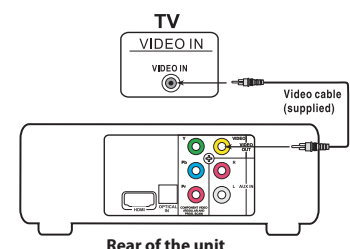
The AM and FM antennas connect to the AM and FM terminals on the system's back panel. They must be hooked up in order to receive clear reception.

AM Loop Antenna

- Uncoil the AM Antenna wire.
- Press down on the Antennas tab to open the terminal.
- Make sure the white wire on the AM loop antenna is inserted into the AM loop terminal and the other wire is inserted into the ground loop terminal.

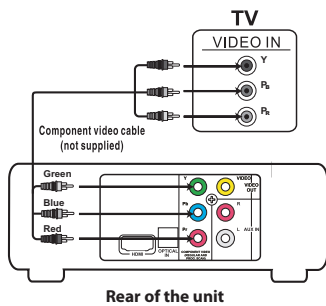
Connecting to your TV (VIDEO)

- Method 1**
- Composite video jack (yellow)
 - The basic video jack is color-coded yellow.
 - Video cable (yellow) is supplied for the connection for good picture quality.
 - Connect the video OUT jack on the receiver to the Video IN jack on your TV so the video content goes from the receiver to the screen.



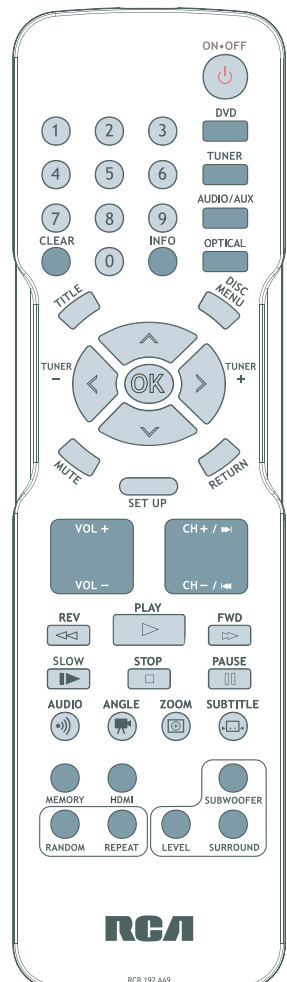
Method 2

- Component video jacks (Pr, Pb, Y)
- The component video jacks are color-coded green, blue and red.
- Additional component video cables (not supplied) are required to provide best picture quality. They are usually color-coded green, blue and red.
- Connect the component video OUT jacks on the receiver to the component video IN jacks on your TV so the video content goes from the receiver to the screen.



- If your television is a high definition television, use the unit's progressive scan output to get the highest possible video resolution. Set the Progressive Scan option in the Video menu to On.
- If none of the devices is not working, check that all the cables have been inserted properly into the jacks.
- Connecting mono components to your receiver: If your component has only one output for audio (mono), connect it to the white audio jack on the receiver and don't use the cable's red plugs.

Overview of Controls



- ON-OFF:** Turns on/off the unit.
- DVD:** Selects the DVD mode.
- TUNER:** Selects the TUNER and selects between FM/AM.
- AUDIO/AUX:** Selects and toggles between the front AUDIO IN mode and rear AUX IN mode. (For listening to audio input from connected TV, VCR or Set Top Box).
- OPTICAL:** Selects OPTICAL IN at rear for digital audio connection.
- 0-9:** Number entry.
- CLEAR:** Quits the current setting manually from the TV screen without saving change.
- INFO:** Accesses the Info menu.
- TITLE:** Accesses the title menu of DVD discs.
- DISC MENU:** Accesses the disc menu during playback.
- OK:** Confirms your selection.
- > / < / ^ / v:** To navigate through the menus. The left and right arrows also tune the radio frequency in the tuner mode.
- MUTE:** Mutes and restores the sound.
- SETUP:** Enters Setup menu.
- RETURN:** In DVD mode, returns to the previous menu.
- VOL +/-:** Adjusts the sound volume.
- CH+/-, CH-/+:** Directly accesses the next or previous chapter (DVD) or track (CD). Selects programmed stations in TUNER mode. Starts reverse accelerated play. Starts playing a disc.
- REV:** Starts forward accelerated play.
- PLAY:** Starts forward accelerated play.
- FWD:** Starts forward accelerated play.
- SLOW:** Selects SLOW motion function.
- STOP:** Stops playback.
- PAUSE:** Freezes frame, accesses frame advance.
- AUDIO:** Accesses the audio function.
- ANGLE:** Accesses the camera angle function for DVD disc.
- ZOOM:** Accesses the Zoom function.
- SUBTITLE:** Selects the subtitle languages or turns subtitle off (if available).
- HDMI:** Changes video output signals (480p, 720p, 1080i or 1080p).
- SUBWOOFER:** Selects among subwoofer output levels (soft/balance/strong/powerful).
- RANDOM:** Turns on/off random playback on CDDA disc.
- REPEAT:** Accesses the repeat function.
- LEVEL:** Toggles channels for different level settings. Adjusts the value using VOL +/-.

Overview of Controls

- SURROUND:** Changes the Surround sound setting. Press the button to select between 5.1 Channel and Stereo modes.
- Remote control functions in tuner mode**
- TUNER:** Selects the TUNER and switch between FM/AM.
- VOL +/-:** Adjusts the sound volume.
- MUTE:** Mutes and restores the sound.
- TUNER +/-:** Tunes down and up the radio frequencies.
- MEMORY:** Stores a station.
- CH +/-:** Selects programmed stations.
- AUDIO:** Selects between Stereo and Mono mode for Tuner (FM).

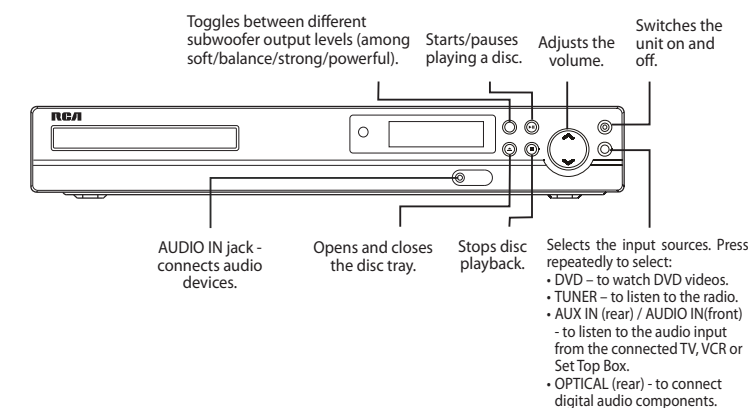
Using remote control to navigate through the on-screen menus

Use >, <, ^, v and OK on the remote control to navigate through the on-screen displays (the DVD player's menu, the Info Display that appears during playback, or a disc's menu).

Use >, <, ^, v on the remote to move through on-screen menus in the direction of the arrow button (e.g., to move right, press >). The arrow buttons are used to highlight an option. Once highlighted, press OK to select the option that is highlighted.

Note: Insert 2 "AAA" ("UM-47"/"R03") batteries to the remote control prior to use.

Overview of Controls - Front Panel Controls

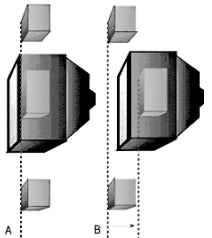


Connections and Setup

Front speaker placement

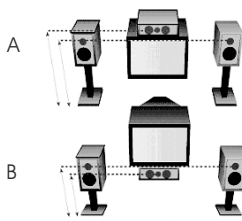
For best results, follow the speaker placement below.

Alignment
Align the center speaker evenly with (A) or slightly behind (B) (the left and right speakers), but not ahead of them.



Angle
Place the left and right speakers to form a 45-degree angle with your favorite viewing position to duplicate the soundtrack mixer's perspective.

Height
The three front speakers should be as close as possible to the same height. This often requires placing the center speaker directly on top (A) or beneath (B) the TV set.



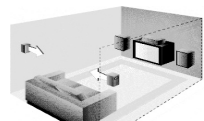
Better surround placement

Location
If possible, place surround speakers to either side of the listening area, not behind it.

Height
If space permits, install surround speakers 2-3 feet above viewers. This helps to minimize localization effects.

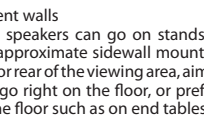
Aiming

Aim surround speakers straight across the room, not down at viewers, to help create a more open, spacious surround sound field.

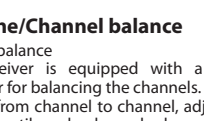


Alternative Surround Placement

Rear wall
If rear wall mounting is the only choice, aim the speakers at each other (A), towards the front (B) or towards the sidewalls (C, D). Experiment with placement until sounds seem to surround you, rather than come from behind you.



No adjacent walls
Surround speakers can go on stands facing each other to approximate sidewall mounting (A), or to the sides or rear of the viewing area, aimed upwards; they can go right on the floor, or preferably, a few feet off the floor such as on end tables (B).



Test tone/Channel balance

Channel balance
Your receiver is equipped with a test signal generator for balancing the channels. As the signal "travels" from channel to channel, adjust the level controls until each channel plays at the same loudness level.

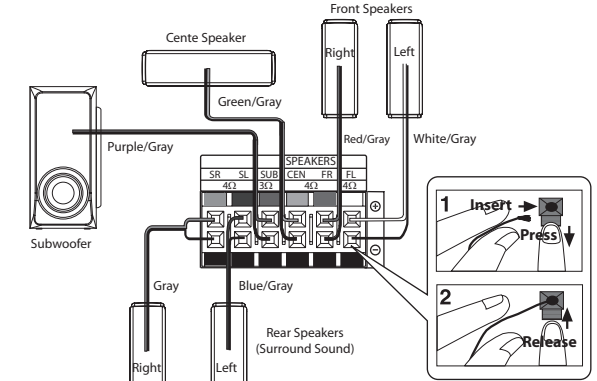
Level adjustment and surround channel level expectation
Even though you adjust the surround channel to be as loud as the others on the test signal, on actual program material the surround channel is adjust the surround level; program producers use surround for subtle atmospheric and ambience, and only rarely for special effects.

Connections and Setup

Connecting the speakers

Speaker wires are color-coded to match the terminals. Connect the speaker wire from the back of each speaker to the corresponding color terminal at the back of the unit. Press down the tab to open the terminal and insert the wire. Release the tab to lock wire in the terminal.

- When connecting the speakers, make sure the polarities ("+" speaker wire to "+" on the receiver. For example, red wire to red terminal on the receiver) of speaker wires and terminals match. If the cords are reversed, the sound will be distorted. Do not let the speaker wires touch each other.
- Center speaker provided with this unit are magnetically shielded to protect your TV set. It is not recommended to place the front speakers, surround speakers and subwoofer near the TV set.



- To adjust each speaker volume level for optimum listening experience.**
- Press the LEVEL button on the remote control to select FL (front Left speaker).
 - Press the VOL+/VOL- buttons to adjust the value up or down (between -10dB and +10dB).
 - Repeat step (1) and (2) for the other speakers FR, SL, SR, CT, SW.
- Speaker gains may be set to levels of up to +10dB, actual max levels may also depend on your Volume Setting.**

Positioning speakers

- Left, Right (Front Speakers)
Front speakers carry primarily music and sound effects.
- Center
In surround mode, the center speaker carries most of the dialog as well as music and effects. It should be set between the left and right speakers.
- Surround (Rear Speakers)
The surround speakers' overall sound balance should be as close as possible to the front speakers. Proper placement is vital to establish an evenly distributed sound field.
- Subwoofer
A subwoofer is designed to reproduce powerful low bass effects (explosions, the rumble of spaceships, etc.).

Playing Discs - Basic Functions

- Compatible discs**
- DVD, DVD-RW, DVD-R, DVD+R, DVD+RW
 - CD, CD-R, CD-RW
- Compatible formats**
- DVD, JPEG
 - CD, VCD

Regional coding

Your unit has been designed to process regional management information stored on DVD discs. The regional code for your unit is 1. Discs that have a different regional code will not play.

Operating the DVD receiver

- Turn on your television set.
- Press ON-OFF on the remote or ON/STANDBY located on the unit's front panel. Press DVD on the remote control.

Loading disc

- Press on the front panel to open the disc tray.
- Place a disc into the disc tray with the label side up.
- Press again to close the disc tray.

Playback

Switch the unit and the TV set on.

- After loading a disc, playback starts automatically, or the disc menu appears. If the disc menu appears, select the Play option to begin playback.
- Press STOP to stop playback.

Accelerated play

While the disc is playing, press REV or FWD one or more times to vary the speed and direction of the accelerated play. Press PLAY to resume normal playback.

Pause

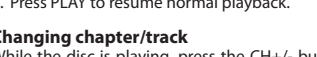
While the disc is playing, press PAUSE once for freeze frame. Press PLAY to resume normal playback.

Frame advance

- Press PAUSE twice. "Step" is displayed.
- Each time you press PAUSE button, the picture advances one frame.
- Press PLAY to resume normal playback.

Basic Playback Operations

- Variable slow motion**
- Press SLOW button on the remote in play mode.
 - Each time the SLOW button is pressed the speed of slow-motion playback changes in the following sequence:



- Press PLAY to resume normal playback.

Changing chapter/track

While the disc is playing, press the CH+/- button to go immediately to the next or previous chapter, or to the next or previous track.

Zoom

- While a disc is playing, press ZOOM until you reach the zoom size you want. The ZOOM button toggles through 2x, 3x, 4x and then zooms out to 1/2x, 1/3x and 1/4x, then returns to normal playback.
- Move from one area to another (pan) using the arrow buttons.
- To turn ZOOM off, press ZOOM until you get to the ZOOM OFF option.

Types of menus

- Disc menu — The appearance and contents of this menu varies according to the type of disc you have inserted. It is separate from the Setup menu.
- Info menu — The unit's Info menu appears at the top of the screen while the disc is playing. Press INFO on the remote to switch the Info menu on or off.

